

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: T.L. Adams

GENERAL INFORMATION:

Name:	ISP CHEMICALS INC.
Address:	P.O. Box 37
	Calvert City, Kentucky 42026
Date application received:	December 12, 1996
SIC/Source description:	2869
AFS(10-digit) Plant ID:	21-157-00003
EIS #:	072-2600-0003
Application log number:	F070
Permit number:	V-99-038

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(2)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☒ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
Carbon Monoxide	147	180
Nitrogen Oxides	523	628
Sulfur Dioxide	1826	3784
PM/PM10	16	21
VOC	196	1482
Benzene	2.5	3
Toluene	23	47.3
Maleic Anhydride	1.1	3
Styrene	.5	1
Vinyl Acetate	9	11.1
Acetaldehyde	4	7
Glycohol Ethers	.5	.7
Diethyl Sulphate	0.	0.

* Actuals based on existing KYEIS, Potential based on Application

SOURCE PROCESS DESCRIPTION:

ISP Chemicals is a Synthetic Organic Chemical plant that makes a large variety of intermediates and specialty chemicals for the food, beverage, health care and other industries. Products are produced in continuous and batch mode.

EMISSION AND OPERATING CAPS DESCRIPTION:

The source has two construction projects that were constructed with federally enforceable restrictions to avoid PSD.

OPERATIONAL FLEXIBILITY:

ISP is constantly modifying and changing product formulas to meet market forces. To assure maximum flexibility to make small changes that do not significantly affect Ambient Air Quality, ISP has submitted a “worst case” analysis of its operating capacity, presenting the worst VOC and worst HAP emissions from all known products.